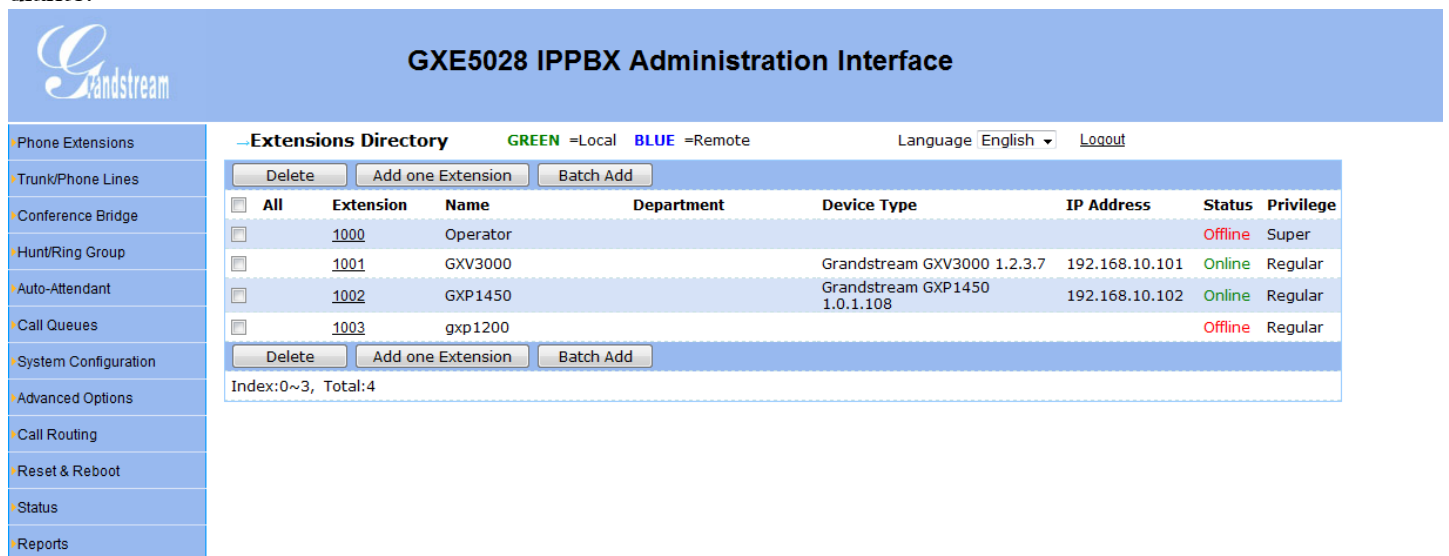


# Tutorial: como fazer e receber ligações externas e internas usando o GXE502x e telefones IP

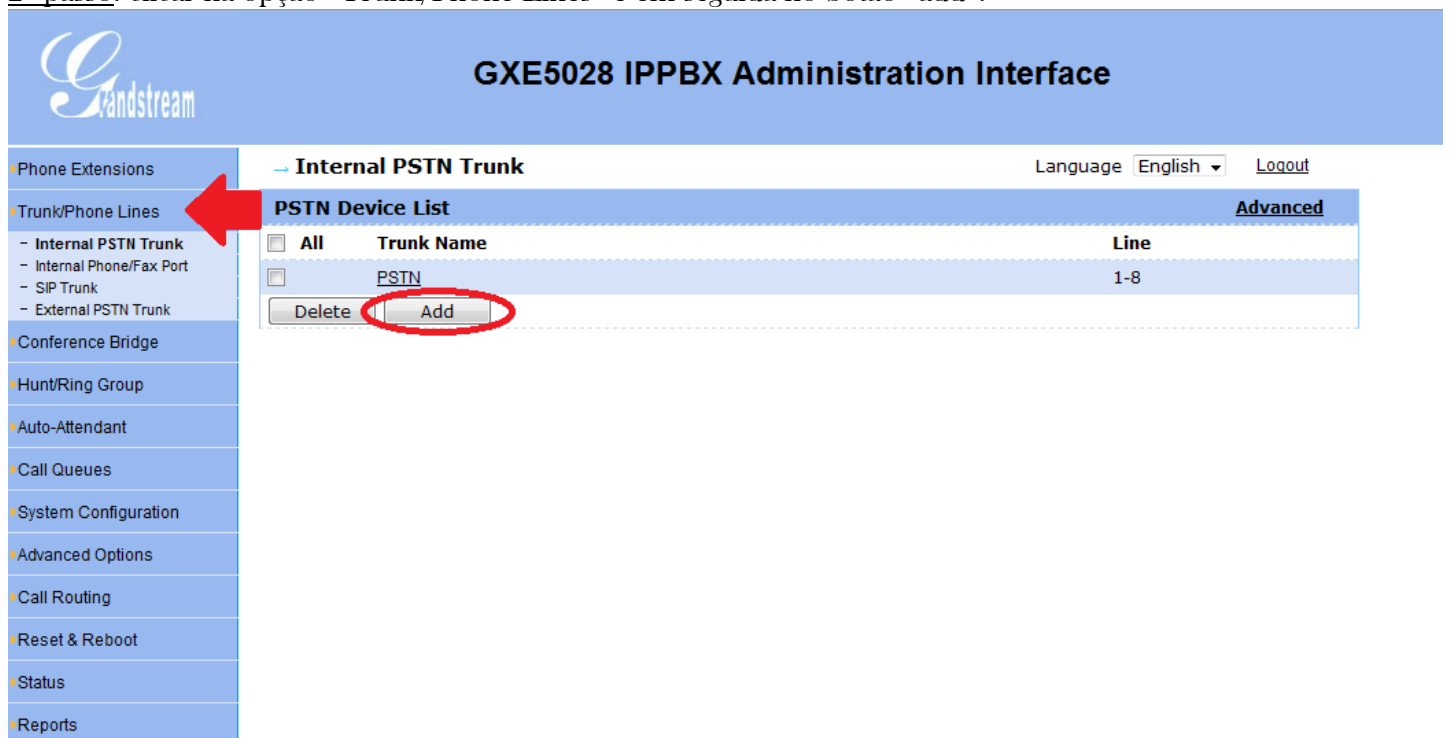
Esse manual tem como objetivo configurar o PBX-IP GXE5024/5028 para fazer e receber ligações externas e internas. Lembrando que, como padrão de fábrica, eles vêm com um DHCP server na porta LAN e seu IP padrão é 192.168.10.1. Além disso, como configurar uma extensão (telefone IP) para autenticar nele:

1º passo: selecionar como será a numeração dos ramais internos. Nesse exemplo, selecionamos de 1000 em diante:



All	Extension	Name	Department	Device Type	IP Address	Status	Privilege
<input type="checkbox"/>	1000	Operator				Offline	Super
<input type="checkbox"/>	1001	GXV3000		Grandstream GXV3000 1.2.3.7	192.168.10.101	Online	Regular
<input type="checkbox"/>	1002	GXP1450		Grandstream GXP1450 1.0.1.108	192.168.10.102	Online	Regular
<input type="checkbox"/>	1003	gxp1200				Offline	Regular

2º passo: clicar na opção “Trunk/Phone Lines” e em seguida no botão “add”:



All	Trunk Name	Line
<input type="checkbox"/>	PSTN	1-8

Na tela seguinte, inserir os dados necessários, onde:

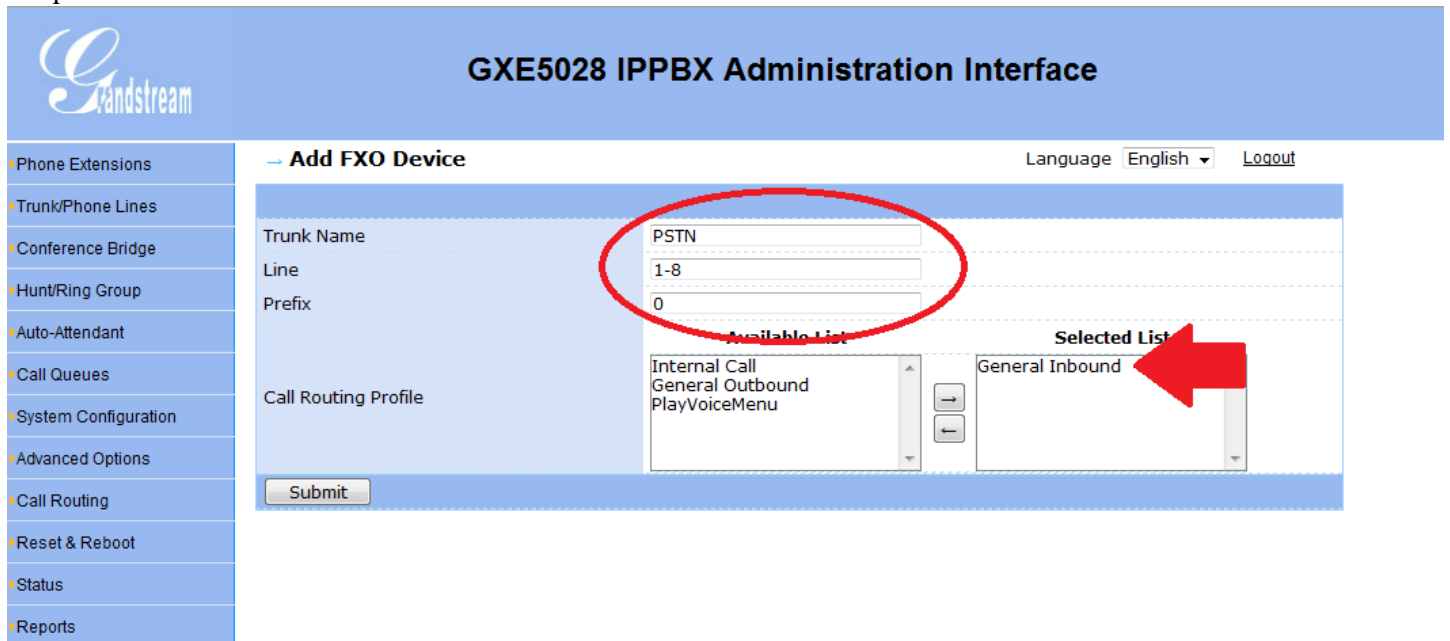
**Trunk name:** um nome qualquer para o tronco analógico (linha). No nosso exemplo, PSTN;

**Line:** quais e quantas portas FXO farão parte desse trunk. No nosso exemplo, as 8 portas estão dentro desse trunk chamado PSTN;

**Prefix:** qual é o dígito, ou os dígitos, que farão parte da regra desse trunk. No nosso exemplo, é o 0. Ou seja, para discarmos para a WDC (3035-3777), estando em SP/SP, devemos discar: 030353777.

Na janela “Selected List”, a opção “General Inbound” deve estar selecionada.

Clique no botão “Submit”.



**GXE5028 IPPBX Administration Interface**

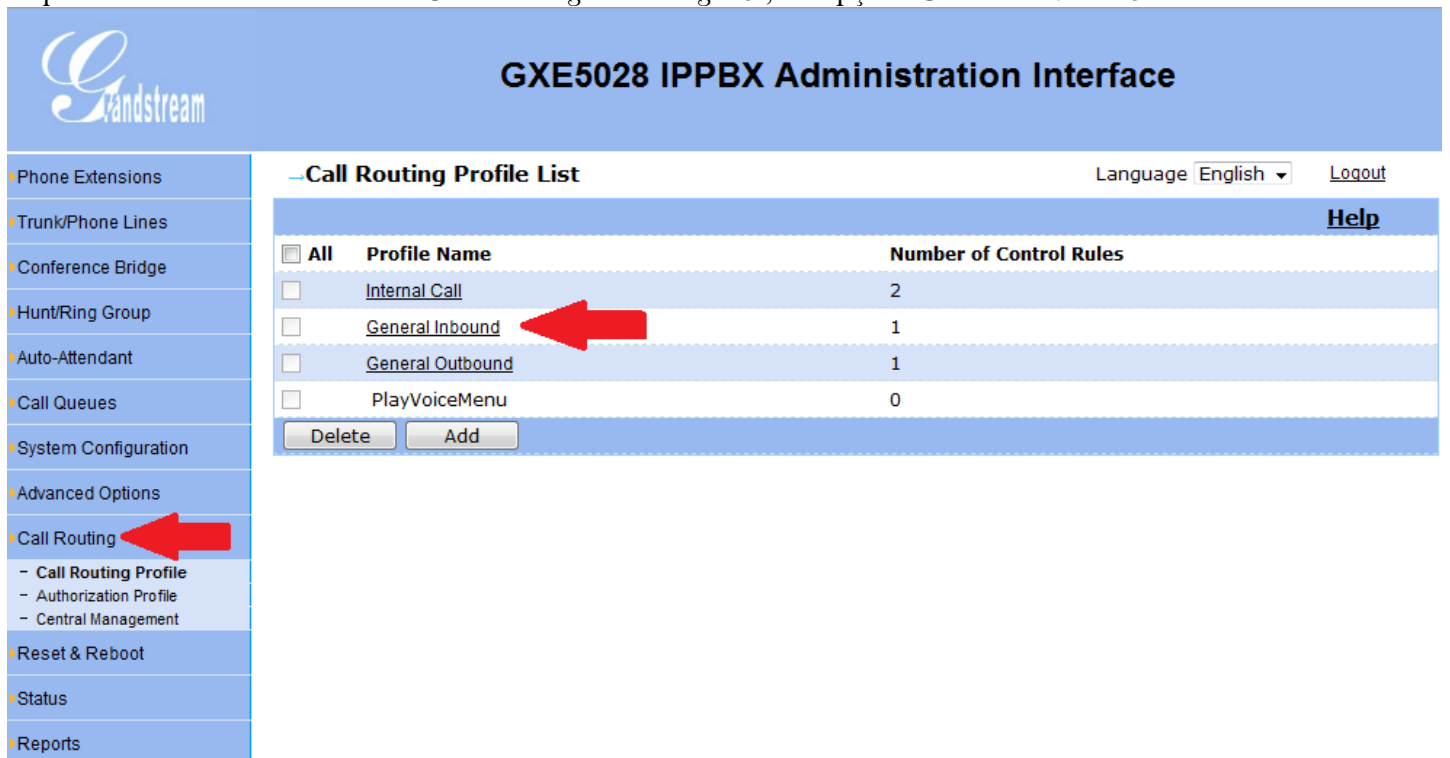
Phone Extensions | **→ Add FXO Device** | Language English | Logout

Trunk Name: PSTN  
Line: 1-8  
Prefix: 0

Available List: Internal Call, General Outbound, PlayVoiceMenu  
Selected List: General Inbound

Submit

3º passo: clicar no menu lateral “Call Routing” e em seguida, na opção “General Inbound”:



**GXE5028 IPPBX Administration Interface**

Phone Extensions | **→ Call Routing Profile List** | Language English | Logout

<input type="checkbox"/> All	Profile Name	Number of Control Rules
<input type="checkbox"/>	<a href="#">Internal Call</a>	2
<input type="checkbox"/>	<a href="#">General Inbound</a>	1
<input type="checkbox"/>	<a href="#">General Outbound</a>	1
<input type="checkbox"/>	<a href="#">PlayVoiceMenu</a>	0

Call Routing Profile List

Call Routing (selected in sidebar)

Call Routing Profile List (selected in sidebar)

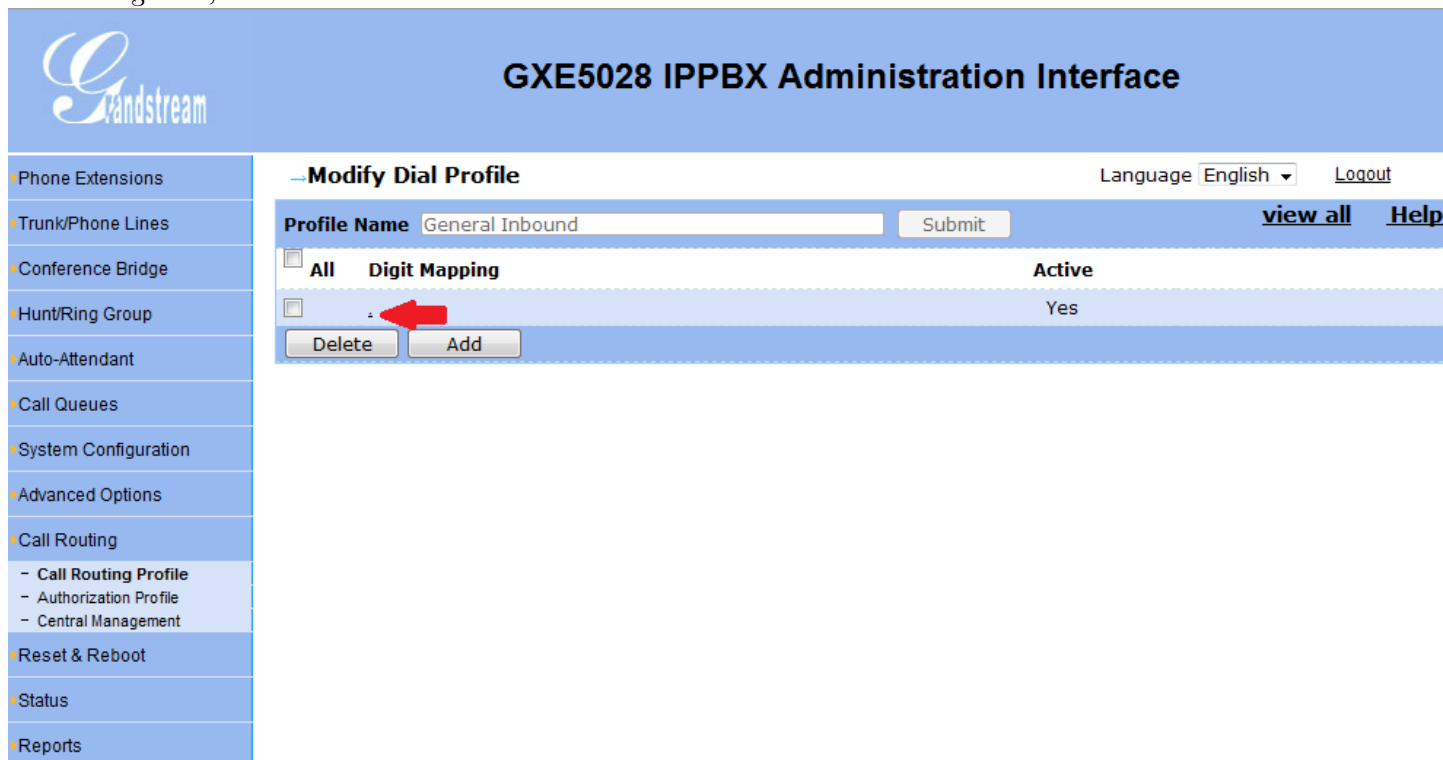
Call Routing Profile

Authorization Profile

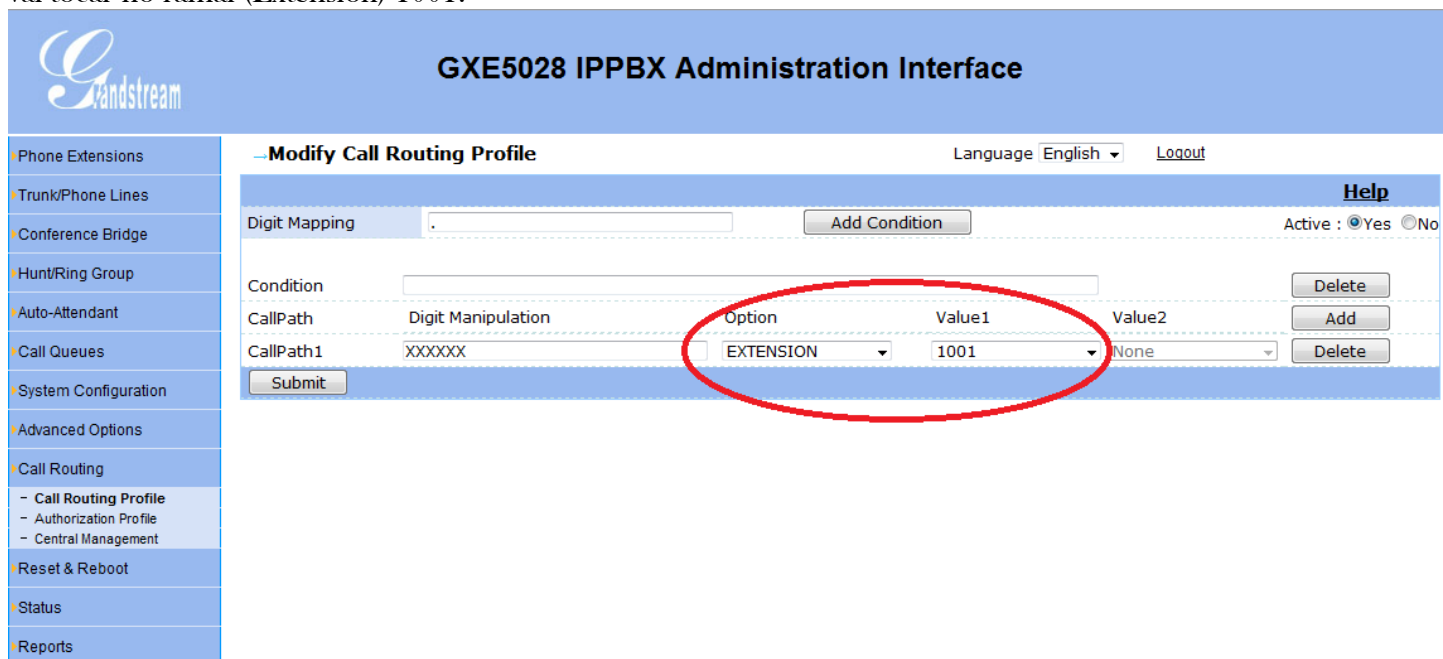
Central Management

Delete Add

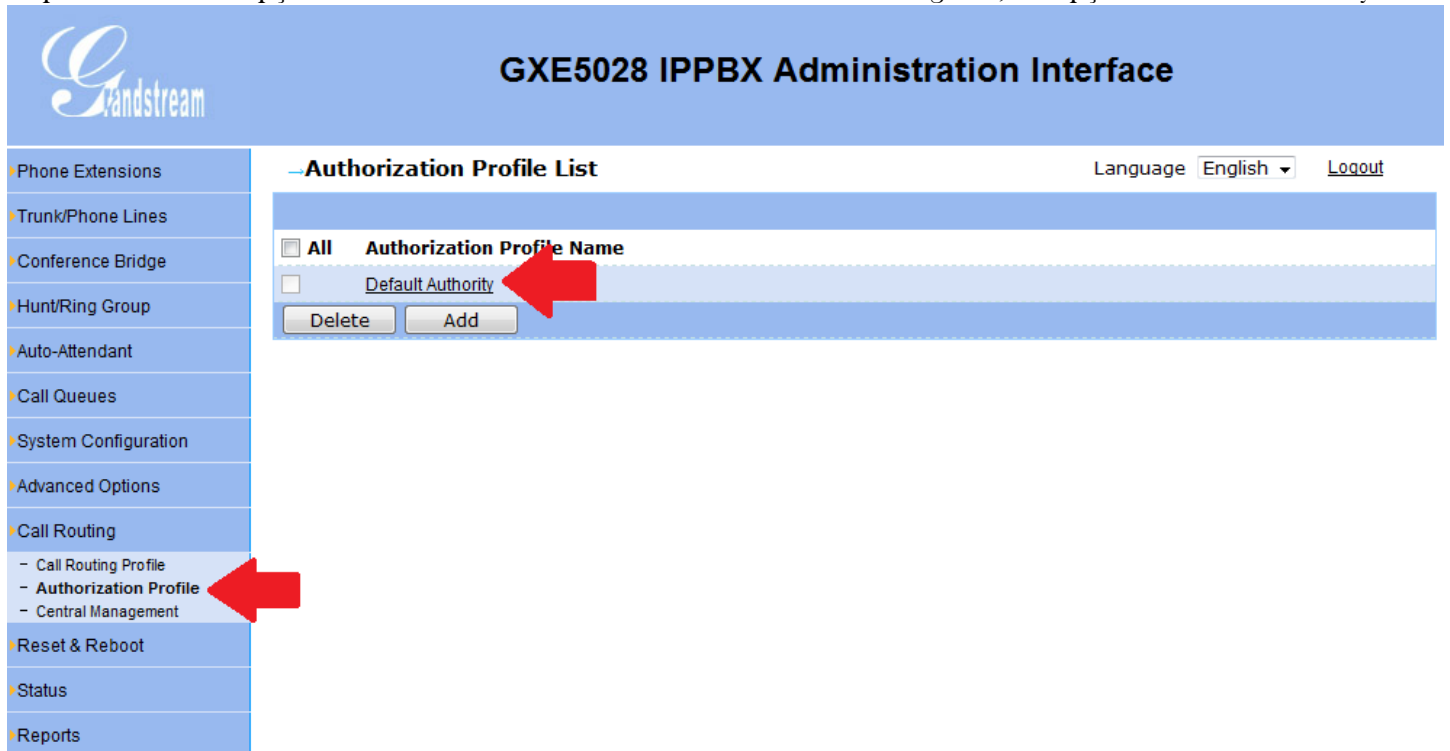
Na tela seguinte, clicar no “.”:



Nos campos “Option” e “Value1”, colocar onde a chamada entrante deve tocar primeiro. No nosso exemplo, vai tocar no ramal (Extension) 1001:

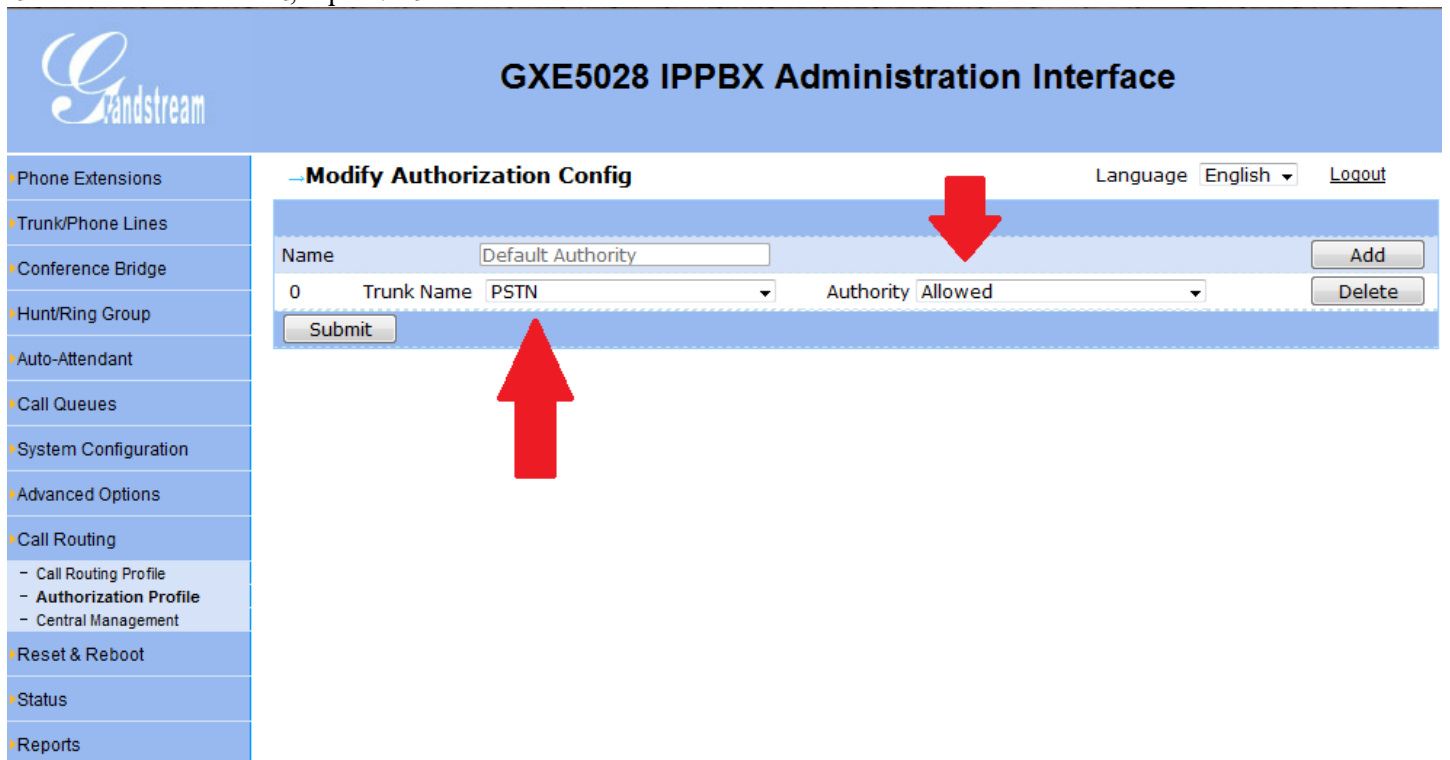


4º passo: clicar na opção do menu lateral “Authorization Profile” e em seguida, na opção “Default Authority”:



The screenshot shows the Grandstream GXE5028 IPPBX Administration Interface. The left sidebar contains a menu with the following items: Phone Extensions, Trunk/Phone Lines, Conference Bridge, Hunt/Ring Group, Auto-Attendant, Call Queues, System Configuration, Advanced Options, Call Routing (highlighted with a red arrow), Reset & Reboot, Status, and Reports. Under 'Call Routing', the sub-items are Call Routing Profile, Authorization Profile (highlighted with a red arrow), and Central Management. The main content area is titled 'Authorization Profile List' and shows a table with one entry: 'Default Authority' (highlighted with a red arrow). Below the table are 'Delete' and 'Add' buttons. The top right of the interface shows 'Language English' and a 'Logout' link.

Na tela seguinte, selecione o trunk previamente criado (PSTN no exemplo), e a permissão de uso da mesma, na opção “Authority”. Allowed é permitido. Allowed with password, só é permitido o uso da linha por meio de senha e Disallowed, é proibido o uso.



The screenshot shows the Grandstream GXE5028 IPPBX Administration Interface. The left sidebar is the same as in the previous screenshot, with 'Authorization Profile' highlighted. The main content area is titled 'Modify Authorization Config' and shows a form with the following fields: 'Name' (Default Authority), 'Trunk Name' (PSTN), and 'Authority' (Allowed). There are 'Add', 'Delete', and 'Submit' buttons. Red arrows point to the 'Name' field, the 'Trunk Name' dropdown, and the 'Authority' dropdown. The top right of the interface shows 'Language English' and a 'Logout' link.

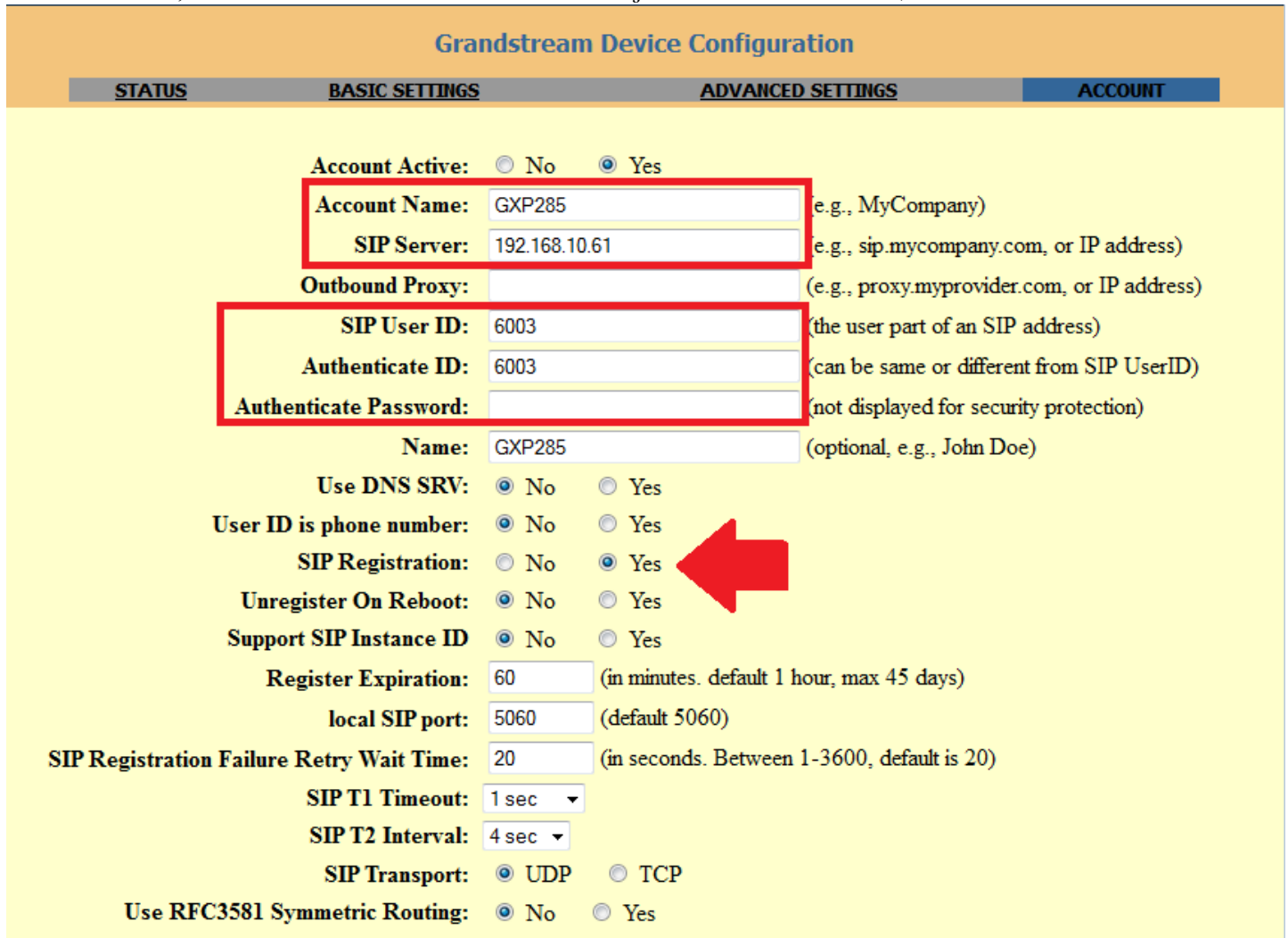
Pronto! Dessa forma, todos os ramais IP poderão fazer e receber ligações entre eles e para fora, além de receber, fazer transferência, conferência, etc.

Obs.: configuração feita com a última versão de firmware, 1.0.1.63.

5º passo: agora, mostraremos como configurar um telefone IP como ramal, bastando replicar para os demais, sendo no máximo 100 por GXE:

Como exemplo, configuraremos um GXP285, que é DHCP client por padrão e tem senha admin.


Na aba “Account”, preencher os parâmetros de autenticação previamente configurados no GXE (teste feito em outro GXE, onde foi selecionado o ramal 6003 e cujo IP era 192.168.10.61):



The screenshot shows the 'Grandstream Device Configuration' web interface, specifically the 'ACCOUNT' tab. The interface has a yellow background and a blue header. The 'ACCOUNT' tab is selected, and the configuration fields are as follows:

- Account Active:**  No  Yes
- Account Name:** GXP285 (e.g., MyCompany)
- SIP Server:** 192.168.10.61 (e.g., sip.mycompany.com, or IP address)
- Outbound Proxy:** (e.g., proxy.myprovider.com, or IP address)
- SIP User ID:** 6003 (the user part of an SIP address)
- Authenticate ID:** 6003 (can be same or different from SIP UserID)
- Authenticate Password:** (not displayed for security protection)
- Name:** GXP285 (optional, e.g., John Doe)
- Use DNS SRV:**  No  Yes
- User ID is phone number:**  No  Yes
- SIP Registration:**  No  Yes (indicated by a red arrow)
- Unregister On Reboot:**  No  Yes
- Support SIP Instance ID:**  No  Yes
- Register Expiration:** 60 (in minutes. default 1 hour, max 45 days)
- local SIP port:** 5060 (default 5060)
- SIP Registration Failure Retry Wait Time:** 20 (in seconds. Between 1-3600, default is 20)
- SIP T1 Timeout:** 1 sec
- SIP T2 Interval:** 4 sec
- SIP Transport:**  UDP  TCP
- Use RFC3581 Symmetric Routing:**  No  Yes

Ainda na aba “account”, marcar as opções “SIP registration” como YES e “Unregister On Reboot” como NO, além do envio do DTMF como RFC2833, padrão comumente usado no Brasil:

User ID is phone number:  No  Yes  
**SIP Registration:**  No  Yes  
**Unregister On Reboot:**  No  Yes  
 Support SIP Instance ID  No  Yes  
 Register Expiration:  (in minutes. default 1 hour, max 45 days)  
 local SIP port:  (default 5060)  
 SIP Registration Failure Retry Wait Time:  (in seconds. Between 1-3600, default is 20)  
 SIP T1 Timeout:    
 SIP T2 Interval:    
 SIP Transport:  UDP  TCP  
 Use RFC3581 Symmetric Routing:  No  Yes  
 NAT Traversal (STUN):  No  No, but send keep-alive  Yes  
 SUBSCRIBE for MWI:  No  Yes  
 SUBSCRIBE for Registration Event:  No  Yes  
 Proxy-Require:   
 Voice Mail UserID:  (UserID for voice mail system)  
 Send DTMF:  in-audio  via RTP (RFC2833)  via SIP INFO  
 Early Dial:  No  Yes (use "Yes" only if proxy supports 484 response)  
 Dial Plan Prefix:  (this prefix string is added to each dialed number)  
 Delayed Call Forward Wait Time:  (Allowed range 1-120, in seconds.)  
 Enable Call Features:  No  Yes (if yes, call features using star codes will be supported locally)  
 Call Log:  Log All Calls  
 Log Incoming/Outgoing only (Missed calls NOT recorded)  
 Disable Call Log  
 Session Expiration:  (in seconds. default 180 seconds)

6º passo: agora para confirmar a autenticação, vamos à aba "Status" do telefone e verificamos o registro, assim como no servidor:

Grandstream Device Configuration			
STATUS	BASIC SETTINGS	ADVANCED SETTINGS	ACCOUNT
	MAC Address: 00:0B:82:2A:A6:A9		
	IP Address: 192.168.10.64		
	Product Model: GXP285 (HW0.5A)		
	Part Number: 9620002305A		
	Software Version: Program-- 1.2.5.3 Bootloader-- 1.1.6.10		
	System Up Time: 1 day(s) 8 hour(s) 14 minute(s)		
	System Time: 16:02 Tuesday, 28 February, 2012		
	<b>Registered: Registered</b>		
	PPPoE Link Up: disabled		

## GXE5024 IPPBX Administration Interface

Phone Extensions

Trunk/Phone Lines

Conference Bridge

Hunt/Ring Group

Auto-Attendant

Call Queues

System Configuration

Advanced Options

Call Routing

Reset & Reboot

Status

Reports

**Extensions Directory**    GREEN =Local    BLUE =Remote    Language English    Logout

Delete    Add one Extension    Batch Add

<input type="checkbox"/>	All	Extension	Name	Department	Device Type	IP Address	Status	Privilege
<input type="checkbox"/>		6000	GXV3175		Grandstream GXV3175	1.0.3.40	192.168.10.63	Online Regular
<input type="checkbox"/>		6001	GXV3140		Grandstream GXV3140	1.0.7.50	192.168.10.67	Online Regular
<input type="checkbox"/>		6002	GXP2120		Grandstream GXP2120	1.0.1.110	192.168.10.65	Online Regular
<input type="checkbox"/>		6003	GXP285		Grandstream GXP285	1.2.5.3	192.168.10.64	Online Regular
<input type="checkbox"/>		6004	GXW4104		Grandstream GXW4104 (HW 1.1, Ch:8)	1.3.4.10	192.168.10.62	Online Regular
<input type="checkbox"/>		6005	GXW4004		Grandstream GXW-4004 V1.3A	1.0.5.10	192.168.10.66	Online Regular
<input type="checkbox"/>		6006	6006	Maycon			Offline	Regular
<input type="checkbox"/>		6007	GXV3000				Offline	Regular

Delete    Add one Extension    Batch Add

Index:0~7, Total:8

Pronto! Agora todos os ramais estão autenticados e prontos para funcionar.